

10157500 DANIELS CREEK AT CHARLESTON, UT

LOCATION.--Lat 40°27'39", long 111°28'19", in SE<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec. 22, T. 4 S., R. 4 E., Wasatch County, Hydrologic Unit 16020203, on left bank 3 ft above capacity elevation of Deer Creek Reservoir, 200 ft downstream from culvert on State Highway 113 in old town of Charleston and 3.5 mi south of Midway.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--May 1993 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,420 ft above sea level, from topographic map.

REMARKS.--Records good except estimated daily discharges, which are fair. Small transbasin diversions from Strawberry River Basin drain into Daniels Creek. Flow also affected by irrigation diversions above station and return flow from irrigated areas.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 274 ft<sup>3</sup>/<sub>s</sub> May 23, 1995, gage height 3.92 ft; no flow several days in July and August, 1994, September 1995.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 165 ft<sup>3</sup>/<sub>s</sub> May 18, gage height, 3.40 ft; minimum daily discharge, 0.66 ft<sup>3</sup>/<sub>s</sub> Aug. 29.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.3	5.2	1.9	4.8	5.6	6.2	7.9	90	55	8.9	10	5.2
2	4.0	4.9	1.7	5.3	6.1	5.4	7.7	68	52	13	7.2	6.9
3	4.3	5.0	e1.5	e5.2	5.5	5.5	6.9	53	46	13	8.0	8.9
4	4.2	5.1	e1.6	e4.8	5.5	5.4	6.9	52	54	10	5.2	8.8
5	4.4	7.2	e1.6	e4.6	5.6	5.5	7.7	63	48	11	7.3	4.7
6	4.1	5.8	e1.7	e4.6	5.4	5.0	7.4	102	46	12	8.8	1.0
7	3.9	5.5	e1.7	e5.0	e5.3	4.9	9.1	114	44	9.2	8.3	3.3
8	3.7	5.7	e1.7	e4.2	4.5	4.3	14	125	52	4.9	6.3	6.3
9	3.2	5.6	1.9	3.6	3.0	2.0	15	120	56	2.8	10	5.4
10	2.9	5.6	e2.0	4.0	e2.5	1.9	15	123	58	4.6	12	3.3
11	3.4	6.4	e2.2	4.0	e2.3	1.9	15	132	56	6.1	17	1.7
12	3.3	6.4	e2.4	e3.7	e2.2	2.1	16	129	43	6.6	22	2.7
13	2.7	6.3	e2.7	e3.4	e2.1	2.5	15	125	51	6.9	25	7.2
14	2.4	6.2	e3.0	e3.1	e1.9	3.0	15	127	48	3.5	32	7.5
15	2.2	6.4	e3.2	e3.2	2.1	2.0	15	133	46	5.1	26	5.3
16	2.0	5.0	3.3	e3.4	4.9	2.1	16	127	47	2.4	15	6.0
17	1.9	.89	e3.2	e3.3	5.0	2.3	15	137	45	2.0	10	9.0
18	2.2	2.5	e3.0	e3.4	5.4	2.6	20	131	42	2.7	14	12
19	2.6	4.0	e3.2	e3.5	5.3	2.7	32	117	42	2.3	12	11
20	2.6	2.1	e3.3	e3.6	5.6	4.3	42	106	37	2.2	13	7.1
21	2.5	1.6	e3.3	e3.7	5.6	11	50	108	27	3.9	12	10
22	2.3	9.2	e3.3	e3.7	5.6	12	45	103	20	6.7	7.7	9.6
23	2.2	7.2	e3.3	e3.7	5.6	11	52	89	26	7.9	5.4	8.8
24	2.4	3.8	e3.3	e3.9	5.9	12	49	112	27	7.3	5.2	8.5
25	2.9	3.3	e3.4	e3.7	5.2	11	47	119	27	8.2	5.9	6.8
26	2.6	2.6	e3.3	e3.8	5.1	9.2	57	97	22	10	4.3	9.0
27	2.5	2.3	3.3	3.8	5.7	7.5	61	79	20	7.5	1.6	8.6
28	2.4	2.3	3.6	6.4	5.4	7.2	92	56	14	5.1	1.9	7.9
29	2.7	2.2	3.6	6.2	---	6.9	111	53	11	2.5	.66	8.5
30	3.6	1.9	3.5	6.1	---	6.8	99	55	11	5.5	1.9	6.7
31	5.0	---	4.1	5.6	---	7.7	---	52	---	4.4	6.2	---
TOTAL	95.4	138.19	84.8	131.3	129.9	173.9	961.6	3097	1173	198.2	321.86	207.7
MEAN	3.08	4.61	2.74	4.24	4.64	5.61	32.1	99.9	39.1	6.39	10.4	6.92
MAX	5.0	9.2	4.1	6.4	6.1	12	111	137	58	13	32	12
MIN	1.9	.89	1.5	3.1	1.9	1.9	6.9	52	11	2.0	.66	1.0
AC-FT	189	274	168	260	258	345	1910	6140	2330	393	638	412

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1997, BY WATER YEAR (WY)

	1994	1996	1996	1994	1994	1997	1997	1997	1995	1995	1993	1993
MEAN	4.94	3.72	3.20	3.78	4.07	3.92	19.0	72.1	43.8	8.13	9.50	6.27
MAX	9.38	4.61	4.10	5.00	5.07	5.61	32.1	99.9	110	16.0	19.5	8.89
(WY)	1994	1996	1996	1994	1994	1997	1997	1997	1995	1995	1993	1993
MIN	2.95	2.09	2.25	2.56	3.27	2.56	13.3	26.2	6.38	.24	1.65	3.14
(WY)	1995	1995	1995	1995	1996	1995	1994	1994	1994	1994	1994	1994

SUMMARY STATISTICS

	FOR 1996 CALENDAR YEAR	FOR 1997 WATER YEAR	WATER YEARS 1992 - 1997
ANNUAL TOTAL	4569.09	6712.85	
ANNUAL MEAN	12.5	18.4	14.8
HIGHEST ANNUAL MEAN			21.2
LOWEST ANNUAL MEAN			6.79
HIGHEST DAILY MEAN	115	137	244
LOWEST DAILY MEAN	.06	.66	.00
ANNUAL SEVEN-DAY MINIMUM	1.5	1.6	.01
ANNUAL RUNOFF (AC-FT)	9060	13310	10700
10 PERCENT EXCEEDS	37	54	46
50 PERCENT EXCEEDS	4.4	5.6	5.2
90 PERCENT EXCEEDS	1.9	2.2	1.9

e Estimated